

**ABSTRACT**

A multiple antenna includes a ground electrode, a dielectric substrate placed on a top surface of the ground electrode, a planar antenna electrode disposed on a top surface of the dielectric substrate, a feeding terminal  
5 electrically coupled to the planar antenna electrode, an upper antenna electrode placed above the planar antenna electrode with a given space in between such that the upper antenna electrode faces the planar antenna electrode; and a feeding section electrically coupled to the upper antenna electrode. The upper antenna electrode has an opening facing the planar  
10 antenna electrode.